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Michael Chan			TRUONG, CAM Y T	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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•	Application No.	Applicant(s)	
Office Antique Commence	09/481,766	TRAMONTANO, ROBERT J.	
Office Action Summary	Examiner	Art Unit	-
	Cam Y T Truong	2172	_
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day I will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	mely filed ys will be considered timely. It the mailing date of this communication (35 U.S.C. § 133).	n.
Status			
1) Responsive to communication(s) filed on 10 M	March 2004.		
<u> </u>	s action is non-final.		
3) Since this application is in condition for allows closed in accordance with the practice under	· · · · · · · · · · · · · · · · · · ·		5
Disposition of Claims			
4) ☐ Claim(s) 36-41 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 36-41 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examine			
10) The drawing(s) filed on is/are: a) acc	•		
Applicant may not request that any objection to the		` ´	۵١.
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E		•	u).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicationity documents have been received tu (PCT Rule 17.2(a)).	ion No ed in this National Stage	
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Attachment(s)			
Notice of References Cited (PTO-892)	4) Interview Summary		
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	Paper No(s)/Mail Da) 5) Notice of Informal P 6) Other:	ate datent Application (PTO-152)	

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DETAILED ACTION

1. Claims 36-41 are pending in this Office Action.

Applicant's arguments filed 3/10/04 have been fully considered but they are not persuasive.

Applicant argued that Du does not teach "ATM". However, Du teaches the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C Of course, real distributed systems usually involved more than just two computer sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The computer site at Portland, oreg is represented as an ATM (col. 1, lines 15-50).

Applicant argued that Du does not teach "ATM for enabling an ATM customer to carry out an ATM customer before allowing the ATM customer to carry out an ATM transaction, at one local data storage device which stores a local relational database which stores information on each ATM customers that frequents this ATM to carry out an ATM transaction so that each of these ATM customers can be more effectively served whenever the particular ATM customer carries out an ATM transaction at this ATM, and an executable local RDBMS for when executed, maintains the local relational database". However, Du teaches

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that the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc., of 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Portland, oreg is represented as the first ATM (col. 1, lines 20-50; col. 8, lines 10-15).

For the above reason, examiner believed that rejection of the last office action was proper.

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Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (or hereinafter "Du") (USP 5412806) in view of Melchione et al (or hereinafter "Melchione") (USP 5930764).

As to claim 36, Du teaches the claimed limitations:

"a first ATM including (i) at least one data storage device, and (ii) a relational database management system for maintaining a relational database which is stored on the data storage device, and which contains information about each customer in a first set of customers who frequent the first ATM to conduct transactions at the first ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon

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area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-

database network independent of the make or particular nuances of the

individual database management sub-systems 12, 13A, etc., of 1 using standard

structured query language queries. The system uses standard structured query

language queries for the databases, which are stored in these two sites.

Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed

banking system. Thus, it obvious that these two databases store information for

these users and these users frequently visit the two sides for updating

information. The computer site in Portland, oreg is represented as the first ATM

(col. 1, lines 20-50; col. 8, lines 10-15);

"a second ATM including (i) at least one data storage device, and (ii) a relational database management system for maintaining a relational database which is stored on the data storage device, and which contains information about each customer in a second set of customers who frequent the second ATM to conduct transactions at the second ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C.

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area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc. of fig 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Washington, D.C is represented as the second ATM (col. 1, lines 20-50; col. 8, lines 10-15);

"a transaction processing system for (i) processing transactions conducted by the first set of customers at the first ATM" as the system allows a user can access data stored at any other site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user access a account record at the D.C, the account record at the D.C is represented as the first set of users. The above information shows that the system has included a transaction processing system to process user's accessing (col. 1, lines 20-25; col. 2, lines 55-60);

"(ii) processing transactions conducted by the first set of customers at the second ATM" as the system allows a user can access data stored at any other

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site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user accesses an account record at the Porland database, the account record at the Porland database is represented as the second set of users. The above information shows that the system has included a transaction processing system to process user's accessing (col. 1, lines 20-25; col. 2, lines 55-60);

"(iii) processing transactions conducted by the second set of customers at the first ATM" as the system allows a user can access data stored at any other site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user access a account record at the D.C, the account record at the D.C is represented as the first set of users. When a user accesses an account record at Portland database, the account record at Portland database is represented as the second set of users. Since the system allows data to be moved from one site to another as usage patterns change. In case, the system moves data account at Portland database from Portland site to D.C site, the system processes the account at Portland database at D.C site (col. 1, lines 20-50; col. 2, lines 15-57),

"and (iv) processing transactions conducted by the second set of customers at the second ATM" as the system allows a user can access data stored at any other site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user access a account record at the D.C, the account record at the D.C is represented as the first set of users. When a user accesses an account record at Portland database, the account

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record at Portland database is represented as the second set of users. Since the system allows data to be moved from one site to another as usage patterns change. In case, the system moves data account at database from D.C site to Portland site, the system processes the account at D.C database at Portland site (col. 1, lines 20-50; col. 2, lines 15-57),

",(ii) means for transmitting to the first ATM information about: any transaction conducted by the first set of customers at the second ATM, and (iii) means for transmitting to the second ATM information about any transaction conducted by the second set of customers at the first ATM" as the system allows a user can access data stored at any other site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user access a account record at the D.C, the account record at the D.C is represented as the first set of users. When a user accesses an account record at Portland database, the account record at Portland database is represented as the second set of users. Since the system allows data to be moved from one site to another as usage patterns change. In case, the system moves data account at database from D.C site to Portland site, the system processes the account at D.C database at Portland site. The system allows a user can access data stored at any other site because a given account record could be stored in both the D.C. and Portland databases. In case, when a user access a account record at the D.C. the account record at the D.C is represented as the first set of users. When a user accesses an account record at Portland database, the account record at Portland database is represented as the second set of users. Since the system

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allows data to be moved from one site to another as usage patterns change. In case, the system moves data account at database from D.C site to Portland site, the system processes the account at D.C database at Portland site (col. 1, lines 20-50; col. 2, lines 15-57).

Du does not explicitly teach the claimed limitation "a data warehouse including (i) means for collecting and storing customer information from each transaction processed by the transaction processing system". Melchione teaches central database 10 is comprehensive and enriched database that include information about all customers and products in the financial institution including branch products, bank cards, travel and entertainment cards, student loans and mortgage products (col. 11, lines 40-60).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Melchione's teaching of the central database 10 is comprehensive and enriched database that include information about all customers and products in the financial institution including branch products, bank cards, travel and entertainment cards, student loans and mortgage products. The system in Melchione provides searching this database in response to structured queries to Du's system in order to allow users to access or search/retrieve their information directly through Internet and to create copies of users' databases for future processing when the system is corrupted.

4. Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (or hereinafter "Du") (USP 5412806) in view of Melchione et al (or

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hereinafter "Melchione") (USP 5930764) and further in view of Buchanan (USP 5758355).

As to claim 37, Du discloses the claimed limitation subject matter in claim 36, except the claimed limitation "wherein each of the ATMs includes means for capturing detailed data about a customer's interaction for use both locally at the ATM and globally at the data warehouse". However, Buchanan teaches the server database is updated with information entered on the client computers and conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bi-directional synchronization processes (col. 4, lines 30-40).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Buchanan's teaching of the server database is updated with information entered on the client computers and conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bi-directional synchronization processes to Du's system in order to allow a user to search/retrieve updated data in different sites.

5. Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (or hereinafter "Du") (USP 5412806) in view of Bauer et al (or hereinafter "Bauer") (USP 5926816).

As to claim 38, Du teaches the claimed limitations:

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"a first ATM including a data storage device and a relational database management system for maintaining a relational database stored on the data storage device, the relational database containing customer information about a first set of customers, where each customer in the first set of customers frequents the first ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc., of 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Portland, oreg is represented as the first ATM (col. 1, lines 20-50; col. 8, lines 10-15);

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"a second ATM including a data storage device and a relational database management system for maintaining a relational database stored on the data storage device, the relational database containing information about a second set of customers, where each customer in the second set of customers frequents the second ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc. of fig 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating

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information. The one in Washington, D.C is represented as the second ATM (col. 1, lines 20-50; col. 8, lines 10-15);

"a transaction processing system for processing transactions conducted at the first and second ATMs" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multidatabase network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc. of fig 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Washington, D.C is represented as the second ATM (col. 1, lines 20-50; col. 8, lines 10-15).

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Du does not explicitly teach the claimed limitation "and a data warehouse including (i) means for communicating with the transaction processing system to retrieve transactions executed at the first and second ATMs, and (ii) means for synchronizing customer information between the data warehouse and each of the first and second ATMs thereby enabling the first ATM to obtain information about transactions conducted by the first set of customers at the second ATM; and enabling the second ATM to obtain information about transactions conducted by the second set of customers at the first ATM". Bauer teaches that the central database 12 can be modified by users to insert, update and delete rows, columns and filed. This central database stores each client local database 22a, 22x and 22z of client computers. The database synchronizer is used to synchronize the data in the central database with the data on each client's computer. The above information shows that the system retrieves data in the central database and synchronizes retrieved data between central database 12 with databases of clients (col. 1, lines 65-67; col. 2, lines 1-5; col. 6, lines 60-67).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Bauer's teaching of synchronizing data between the central database and databases of clients to Du's system in order to avoid conflict data records between sites during a user makes any transaction and allow a user to search/retrieve database records at any side within interconnected computer networks

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6. Claim 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (or hereinafter "Du") (USP 5412806) in view of Buchanan (USP 5758355) and further in view of Drummond et al (or hereinafter "Drummond") (USP 6505177).

As to claim 39, Du teaches the claimed limitations:

"(ii) a local data storage device which stores a local relational database which stores customer-specific information each time the ATM customer frequents this ATM to carry out an ATM transaction at this ATM, (iii) an executable local relational database management system (RDBMS) for, when executed, updating the customer-specific information stored in the local relational database stored in the local data storage device of this ATM, and (iv) a local processor for executing the RDBMS to update the customer specific information stored in the local relational database stored in the local data storage device of this ATM each time the ATM customer carries out an ATM transaction at this ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the

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ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc., of 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Portland, oreg is represented as the first ATM (col. 1, lines 20-50; col. 8, lines 10-15),

"(ii) a local data storage device which stores a local relational database which stores customer-specific information each time the ATM customer frequents this ATM to carry out an ATM transaction at this ATM, (iii) an executable local relational database management system (RDBMS) for, when executed, updating the customer-specific information stored in the local relational database stored in the local data storage device of this ATM, and (iv) a local processor for executing the RDBMS to update the customer specific information stored in the local relational database stored in the local data, storage device of this ATM each time the ATM customer carries out an ATM transaction at this ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system

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with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc. of fig 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Washington, D.C is represented as the second ATM (col. 1, lines 20-50; col. 8, lines 10-15);

"a transaction processing system for processing each ATM transaction carried out by the ATM customer at the first ATM and for processing each ATM transaction carried out by the ATM customer at the second ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one

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in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc. of fig 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Washington, D.C is represented as the first ATM. The one in Portland site is represented as the second ATM (col. 1, lines 20-50; col. 8, lines 10-15).

Du does not explicitly teach the claimed limitation "and a data warehouse system including (i) means for uploading from the local data storage device of the first ATM at least some customer-specific information associated with ATM transactions which have been carried out by the ATM customer at the first ATM, and (ii) means for downloading to the local data storage device of the second ATM the at least some customer-specific information which has been uploaded from the local data storage device of the first ATM to update the

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customer-specific information stored in the local relational database stored in the local data storage device of the second ATM so that the ATM customer can be more effectively served at the second ATM when the ATM customer carries out an ATM transaction in the future at the second ATM; a first ATM including (i) means for receiving a card from an ATM customer to identify the ATM customer before allowing the ATM customer to carry out an ATM transaction at this ATM; a second ATM including (i) means for receiving a card from the ATM customer to identify the ATM customer before allowing the ATM customer to carry out an ATM transaction at this ATM.

Buchanan teaches the server database is updated with information entered on the client computers and conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bidirectional synchronization processes (col. 4, lines 30-40). Drummond teaches that customer PIN verification may be carried out in the ATM through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm. The networks interconnect ATMs operated by financial institutions and other entities. Thus, the customer PIN or card verification may be carried out in all ATMs (col. 1, lines 45-55; col. 15, lines 30-37).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Buchanan's teaching of the server database is updated with information entered on the client computers and

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conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bi-directional synchronization processes and Drummond's teaching of customer PIN verification may be carried out in the ATMs through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm to Du's system in order to prevent users to update databases from different sites in a distributed system without permission.

As to claim 40, Du teaches the claimed limitations:

"a local data storage device which stores a local relational database which stores customer-specific information each time the ATM customer frequents this ATM to carry out an ATM transaction al. this ATM, (iii) an executable local relational database management system (RDBMS) for, when executed, updating the customer-specific information stored in the local relational database stored in the local data storage device of this ATM, and (iv) a local processor for executing the RDBMS to update the customer specific information stored in the local relational database stored in the local data storage device of this ATM each time the ATM customer carries out an ATM transaction at this ATM" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example

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represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12. 13A, etc., of 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The one in Portland, oreg is represented as the first ATM (col. 1, lines 20-50; col. 8, lines 10-15).

Du does not explicitly teach the claimed limitations "a first ATM including (i) means for receiving a card from an ATM customer to identify the ATM customer before allowing the ATM customer to carry out an ATM transaction at this ATM, and (ii) means for providing customer-specific information associated with the ATM transaction when the ATM customer carries out the ATM transaction at this ATM; a second ATM including (i) means for receiving a card from the ATM customer to identify the ATM customer before allowing the ATM

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customer to carry out an ATM transaction at this ATM, (ii) a transaction processing system for processing each ATM transaction carried out by the ATM customer at the first ATM and for processing each ATM transaction carried out by the ATM customer at the second ATM; and a data warehouse system including (i) means for retrieving from the first ATM the customer-specific information associated with the ATM transaction which has been carried out by the ATM customer at the first ATM, and (ii) means for downloading to the local data storage device of the second ATM the at customer-specific information which has been retrieved from the first ATM to update the customer-specific information stored in the local relational database stored in the local data storage device of the second ATM so that the ATM customer can be more effectively served at the second ATM when the ATM customer carries out an ATM transaction in the fixture at the second ATM".

However, Buchanan teaches the server database is updated with information entered on the client computers and conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bidirectional synchronization processes (col. 4, lines 30-40). Drummond teaches that customer PIN verification may be carried out in the ATM through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm. The networks interconnect ATMs operated by financial

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institutions and other entities. Thus, the customer PIN or card verification may be carried out in all ATMs (col. 1, lines 45-55; col. 15, lines 30-37).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Buchanan's teaching of the server database is updated with information entered on the client computers and conversely the client computers are updated with new information entered on the server computer. The different client databases are synchronized with the server database through separate bi-directional synchronization processes and Drummond's teaching of customer PIN verification may be carried out in the ATMs through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm to Du's system in order to prevent users to update databases from different sites in a distributed system without permission.

7. Claim 41 is rejected under 35 U.S.C. 103(a) as being unpatentable over Du et al (or hereinafter "Du") (USP 5412806) in view of Drummond et al (or hereinafter "Drummond") (USP 6505177).

As to claim 41, Du teaches the claimed limitations:

"at least one local data storage device which stores a local relational database which stores information on each ATM customer that frequents this ATM to carry out an ATM transaction so that each of these ATM customers can be more effectively served whenever the particular ATM customer carries out an

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ATM transaction at this ATM; and an executable local relational database management system (RDBMS) for, when executed, maintains the local relational database" as the term distributed database management systems involving multiple computer sites, each with a local database connected together in a communication network, in which a user at any site can access data stored at any other side. The example represents a simple distributed banking system with two sites, for example, one in Portland, Oreg. and one in Washington, D.C. Of course, real distributed systems usually involved more than just two sites. But suppose account records for the Washington, D.C. area are stored in a local database at the D.C. site, while account records for the Oregon area are stored in a local database at the Portland side. The system in Du also provides the ability to store, maintain and modify data in a multi-machine, multi-database network independent of the make or particular nuances of the individual database management sub-systems 12, 13A, etc., of 1 using standard structured query language queries. The system uses standard structured query language queries for the databases, which are stored in these two sites. Therefore, these databases are relational databases. The above information shows that users can access data stored at any other side of a distributed banking system. Thus, it obvious that these two databases store information for these users and these users frequently visit the two sides for updating information. The computer site in Portland, oreg is represented as the first ATM (col. 1, lines 20-50; col. 8, lines 10-15).

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Du does not explicitly teach the claimed limitation "means for receiving a card from an ATM customer to validate identity of the ATM customer before allowing the ATM customer to carry out an ATM transaction". Drummond teaches that customer PIN verification may be carried out in the ATM through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm. The networks interconnect ATMs operated by financial institutions and other entities. Thus, the customer PIN or card verification may be carried out in all ATMs (col. 1, lines 45-55; col. 15, lines 30-37).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Drummond's teaching of customer PIN verification may be carried out in the ATMs through an appropriate applet. This can be done in situations where data on a customer's card such an account number, can be correlated to the customer's Pin number through algorithm to Du's system in order to prevent users to update databases from different sites in a distributed system without permission.

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Conclusion

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Contact Information

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam-Y Truong whose telephone number is (703-605-1169). The examiner can normally be reached on Mon-Fri from 8:00AM to 4:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (703-305-9790). The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703-305-3900).

Cam-Y Truong

3/24/04

SHAHID ALAM PRIMARY EXAMINER

Alan